

**MINISTRY OF HEALTH & FAMILY WELFARE
GOVERNMENT OF INDIA, NEW DELHI**

Tender No-MoHFW/AIIMS-RISHIKESH/SWHS/HLL/ID/2015

Request for Proposal (RFP)
for

**SETTING UP OF RESIDENTIAL COMPLEX
AT AIIMS RISHIKESH:
Solar Water heating System Works**

- **Volume-IV (BOQ)**



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NOIDA (UP) -201307

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(February, 2015)

PREAMBLE TO BILL OF QUANTITIES

(This preamble applies to all the sections of the Bill of Quantities. The Contract rates shall take into account all these provisions in addition to various provisions as given in other parts of the Contract document)

SI No.	DESCRIPTION
1	This is an "Item Rate Tender". Rates shall include cost of materials, labour, plants & equipments taxes, duties and all necessary apparent services required for complete execution, and commissioning in accordance with relevant drawings and specification. The HLL/MoHFW decision on interpretation of bill of quantities and its preamble shall be final and binding on the contractor.
2	The quantities given in this Bill of Quantities are liable to variations. Such variations in quantities shall not, however, vitiate the contract in any way whatsoever and all quoted rates shall remain valid as per deviation limits provided in the contract. Contractor shall be paid for the actual measured quantities of work executed by him/them .
3	Rates quoted shall be firm and shall not be subject to any price variations except as specifically provided in the contract.
4	The contractor's quoted rate shall include surveying, making layout and demarcation of all services as required for completion of the works within the scope of this contract .
5	The words "as specified", "as described", "as shown", "as directed", or "as approved", shall mean as described in the specifications, Schedule of Quantities and other Contract documents as shown on the drawings or as directed by EIC.
6	The following notations as appearing in the Bill of Quantities and specifications shall mean :
	a) Cum = Cubic metre
	b) Sqm. = Square metre
	c) Rm/Mtr./ Metre = Running metre
	d) No./Nos./Each/Set = Numbers
	e) Kg. = Kilogram
f) MT. = Metric Ton	
7	The bidders shall take into account all leads and lifts involved in transport of materials to site, erection and hire of T & P, sheds for materials, etc. while quoting the rates for various sub heads of the work. Similarly all taxes including Octroi, Toll or Sales Tax/VAT, Works Contract Tax or any other Taxes etc. as payable by the contractor at the time of submission of bids shall be taken in to account by the bidders before quoting their. Any claim in these matters whatsoever in this respect shall not be entertained.

Bill of Quantities for Solar Water Heating System

Name of Work Setting up of residential complex at AIIMS Rishikesh.SH:Solar Water Heating System

SOLAR WATER HEATING SYSTEM							
Sr. No.	CODE	DESCRIPTION	UNIT	QTY	RATE (Rs.) in Figure	RATE (Rs.) in Words	AMOUNT (Rs.)
SOLAR WATER HEATING SYSTEM							
1	NDSR	Design,Supply installation testing and commissioning of solar water heating system consisting of ISI marked required number of solar flat plate collectors each of area 2 sq. mtr with 9 nos. lasers welded cu-cu fin & tubes for high efficiency with necessary MS stands, structural supports for mounting on concrete Supports,rubber EPDM gaskets with nut and bolts,rubber gasket for flanges C-clamps etc with SS 304 fabricated floor supported Vertical/Horizontal of following storage capacity of Hot water Storage tank shall be suitable for a minimum working pressure .The tank shall be fabricated out of SS plate with suitable thickness as per tank capacities and inner ceramaic lining of 2mm thickness.The tank shall be insulated with 50mm thick Rockwool/PUF covered with chicken wire mesh including 24 SWG aluminium cladding and Inlet and outlet pipe connections , drain pipe and level indicators , 1 nos. Pressure gauges , 1Nos.temperature guage at inlet and outlet side, flow meter etc. including structural supports for mounting on concrete pedestal including the necessary accessories and safety fittings capable of delivering hot water at 55 - 60 Deg.C ,etc.complete in all respect as per direction of Engineer incharge.					
a		100 litres capacity per day	Set	1			
b		300 litres capacity per day	Set	1			
c		500 litres capacity per day	Set	8			
d		600 litres capacity per day	Set	3			
e		700 litres capacity per day	Set	1			
f		900 litres capacity per day	Set	4			
g		1000 litres capacity per day	Set	4			
h		1100 litres capacity per day	Set	4			
i		1200 litres capacity per day	Set	12			
j		1300 litres capacity per day	Set	2			
		Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
2	DSR 18.10.2	20 mm dia nominal bore	Mtr.	500			
		Fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.					
3	NDSR	32 mm dia nominal bore	Mtr.	250			
		Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
4	DSR 18.17.2	32 mm nominal bore.	nos.	40			
		Providing and fixing brass stop cock of approved quality :					
5	DSR 18.16.2	20 mm dia nominal bore	nos.	40			
6		Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :					
a	DSR 18.38.2	20 mm dia pipe	Mtr.	500			
b	DSR 18.38.4	32 mm dia pipe	Mtr.	250			
TOTAL							

Note	Quantities of various items mentioned in BOQ are tentative and all the bidders are advised to ensure that the solar water heating system is properly designed ,supplied and installed with applicable performance parameters as per relevant codes and standards.
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